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**Synthetic hosts by monomolecular imprinting inside dendrimers.**

Zimmerman SC, Wendland MS, Rakow NA, Zharov I, Suslick KS

Nature 2002 Jul 25 **418**(6896):399-403 [[abstract on PubMed](#)][[order article](#)]**Selected by** | Anthony Czarnik **NEW**

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Science, Inc, United States
CHEMICAL BIOLOGY

Hypothesis

Comments

Presents a creative solution to a decades-old problem: how to use ligand-directed receptor synthesis in a way that, at least conceptually, permits the fractionation and structural characterization of tight-binding receptors. This paper will influence how the biomimetic community thinks. The authors describe "monomolecular imprinting" as a novel method to prepare synthetic receptors. The products are globular, monomeric macromolecules large enough to completely encase substituted porphyrin guests.

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